



Y-12 BULLETIN

A NEWSPAPER BY AND FOR EMPLOYEES OF CARBIDE AND CARBON CHEMICALS CORPORATION IN Y-12

Volume 2, No. 43

OAK RIDGE, TENNESSEE

Tuesday, October 26, 1948

'Man, Atom' Show Displays Impressive

Attendance at the "Man and the Atom" show should be a "must" on the program of all Y-12 employees and members of their family this week. The show, being displayed in the new, big brick warehouse just west of Elza Gate, opened last Saturday and will continue through Saturday night of this week.

The informative and entertaining show is being offered by the Atomic Energy Commission. It was the feature attraction of the New York City Golden Jubilee Exposition where hundreds of thousands persons viewed the dramatic exhibition of progress being made by man in this Atomic Age.

Schedule For This Week

The schedule for the remainder of the week follows:

Tuesday—10 a. m. to 1 p. m.; 7 p. m. to 10 p. m.

Wednesday, Thursday and Friday—2 p. m. to 5 p. m., 7 p. m. to 10 p. m.

Saturday—2 p. m. to 10 p. m.

The daytime showings are particularly intended to allow school children of Oak Ridge and other East Tennessee communities to visit the display. Several outside groups already have made arrangements to visit Oak Ridge to attend the show.

General Public Invited

The management of the Oak Ridge Operations of the Atomic Energy Commission has issued an invitation to the general public of East Tennessee to attend the exhibit. Entrance to the show is free and both the Elza and Edgemore Gates will be open to the public with no passes required during the hours the show is open.

One of the major exhibits in the show is that of Carbide and Carbon Chemicals Corporation displaying the fundamental principles of the processes used in its three Oak Ridge installations.

The Y-12 exhibit demonstrates by mechanical analogy the electro-magnetic process in use and a brief text at the side of the booth explains the procedure. This text relates:

Y-12 Exhibit Explained

"Uranium as found in nature is a mixture of uranium isotopes with one part of U-235 to 140 parts of U-238. To take out this tiny part of U-235 magnetically, uranium is first ionized, that is, the isotope particles are given an electric charge. Then their speed is increased tremendously and they are passed into a powerful magnetic field.

"The particles of ionized U-235 are lighter. They are here represented by gold balls roughly 30,000,000 times their actual size. These particles are strongly swerved from their normal paths

(Continued on Page 3)

Red Feathers Fly Throughout Y-12 As Chest Goal Topped By 20 Per Cent With Employees Giving More Than \$5,000

Showing a splendid spirit of cooperation, generosity and determination reminiscent of wartime days, Y-12 employees last week oversubscribed their 1948 Oak Ridge Community Chest quota by more than 20 per cent—and did it in record time.

A truly remarkable feat was accomplished as every department in the plant met or exceeded its assigned quota in the drive. Line Supervision was in charge of the campaign

and was assisted by a committee of coordinators from various divisions in the plant. Needless to say, the superlative results of the campaign were pleasing to everyone who participated.

The quota assigned to Y-12 was \$4,000. This sum was reached at 2:49 p.m. last Wednesday and duly reported to Oak Ridge Community Chest headquarters. Pledges and cash continued to roll in and by noon Thursday \$5,016 had been contributed to the Chest cause and reports still were

coming in to the coordinating committee with indications pointing to the probability this amount would be considerably increased.

The drive was launched Friday, October 15, in Y-12 with initial distribution of pledge cards to all employees. Some small departments reported back that same day with 100 per cent participation.

Red Feathers Start Flying

Then during the first part of last week the feathers—red, that is—began to really fly into hat bands, lapels, blouses, dresses and coats throughout the plant. Department after department sent in encouraging reports and the amount of contributions steadily grew as the idea "everybody benefits—everybody gives" seemed to spread like wildfire throughout the plant.

Dr. C. E. Larson, Y-12 Superintendent, was chairman of the Chest campaign in Y-12 with H. O. Ramey, Employment Department Superintendent, as co-chairman and chairman of the coordinating committee. Members of this committee included Pat Hamrick, Industrial Relations; R. R. Tippy, Manufacturing Offices; L. E. Parsons, Research and Development; J. H. Harmon, Engineering; Nelson Tibbatts, Maintenance; and W. S. Herndon, Chemical.

This committee worked closely with Line Supervision in providing information concerning the Chest objectives and other details of the campaign.

Y-12 First Major Report

Meanwhile, Oak Ridge Community Chest headquarters last Thursday were highly optimistic that the entire campaign with its goal of \$58,070.91 would be successfully concluded by the end of the week. Chest headquarters reported that Y-12 was the first of the large plant and commercial groups to report reaching or exceeding assigned goals. The Oak Ridge Fire Department, the Townsite branch of the Hamilton National Bank, employees of AIT and of the Concessions Department of Roane-Anderson Co., also had reported 100 per cent contributions to the Chest fund early last week. With other large organizations preparing their reports for submission, Chest campaign leaders were certain the city's quota would be reached before the campaign was to be officially closed Saturday night.

Herndon Named Chairman Of Red Cross Committee

Jess M. Herndon, of Y-12, has been appointed chairman of the Volunteer Services for the Oak Ridge Chapter of the American Red Cross, it has been announced by William T. Rodes, chairman of the chapter.

Mrs. Wallace Ould has been named chairman of public information for the chapter and she has chosen as assistants Mrs. Russell Baldock, wife of a Y-12 employee, to be in charge of newspaper publicity; and Mrs. Frederick W. Ford, II, in charge of radio publicity.



Y-12 Photos By Vince Moore

"GIVE THE CREDIT TO ALL THE EMPLOYEES DOWN IN THE PLANT THAT HELPED PUT over the campaign," said H. O. Ramey, Y-12 co-chairman of the 1948 Community Chest drive, top right, as members of his coordinating committee reported continued successes. Seated at the table, left to right, are Nelson Tibbatts, R. R. Tippy, handing a sheaf of reports to Co-Chairman Ramey; L. E. Parsons and Pat Hamrick. Standing, from left, are J. H. Harmon and W. S. Herndon. Dr. C. E. Larson, Y-12 Superintendent and chairman of the drive in the plant, was out of the city when this picture was made.

Time Off To Vote To Be Given Y-12 Employees If Required

Time off with pay up to two hours will be granted Y-12 employees who are qualified voters and who otherwise would not be able to vote in the state and national elections Tuesday, November 2, during their regular scheduled off time.

Not many employees will have to apply for this privilege, as polling places in Oak Ridge and Knoxville will be open from 9 a. m. to 7 p. m. As a result, only employees who live in smaller cities where voting precincts close at 4 p. m. may be certified for absence with pay, limited to two hours straight time, to cast their ballots.

Apply Early As Possible

All employees who desire to avail themselves of this voting time privilege must make arrangements in advance with their direct super-

visor. Supervisors will schedule these absences so that there will be no interruptions in operations. Arrangements for absences should be made as far in advance as possible.

Voting places in Oak Ridge will be located at the Oak Ridge High School, Jefferson Junior High School and Fairview and Glenwood elementary schools. Voters may cast their ballots at any of the four precincts, not being confined to voting in any one district.

Poll Tax Requirements Cited

Poll tax receipts dated not less than 60 days prior to the date of the election must be presented at the voting places by persons subject to such taxes. Poll taxes are not required of voters who became

(Continued on Page 3)

Attendance Standing Topped By Guards

The Guards were back up into the Major League attendance lead for the week ending October 17, however only by one one-hundredths of a point. The leaders reported 1.45 per cent of their personnel absent, while Dept. A17N, General Plant Maintenance, and Dept. B12H, Refining, each trailed, with 1.46 per cent of their personnel absent.

Guards Rise From Eighth

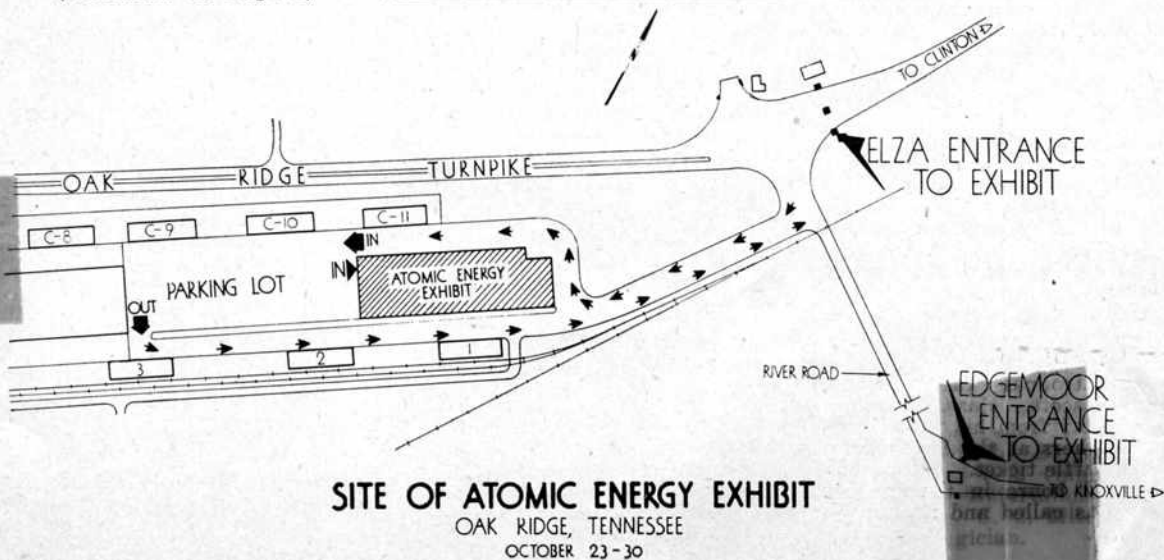
Dept. A12S, Receiving, Stores and Shipping were again in third place with 1.6 per cent absent. The biggest jump in Major League attendance was made by the Guardsmen who rose from eighth place to top the league.

Four departments in the Minor League reported "all present." They include Dept. A15N, Experimental Process Equipment and Maintenance; Dept. A13S, Tools; Dept. A13T, Transportation; and Dept. A14J, Fire Department.

Second place in the Minor League was topped by Dept. M13P, Product Processing, with .6 per cent of its personnel absent. Dept. A12T, Automotive Repair, (Continued on Page 3)

Ridge Engineer Chapter Will Meet

The Oak Ridge Chapter of the American Society of Mechanical Engineers will hold a business meeting in the Central Dining Hall at 8 o'clock Thursday night, October 28. All Oak Ridge mechanical engineers have been invited to attend the meeting as guests of the chapter. A buffet supper and smoker is planned.



SITE OF ATOMIC ENERGY EXHIBIT
OAK RIDGE, TENNESSEE
OCTOBER 23-30

Y-12 Bulletin

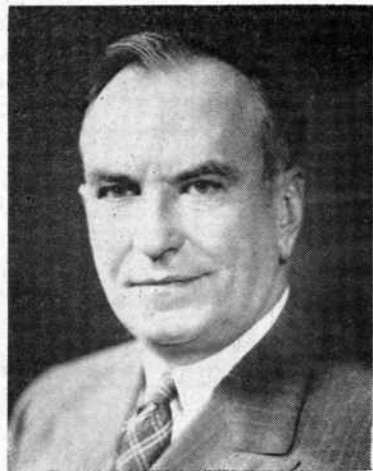
Published Weekly By
Carbide And Carbon Chemicals
Corporation
Post Office Box P

Oak Ridge Tenn.

GEORGE W. DOBBS . . . Editor
R. A. BURGIN, JR. . . Associate Editor

OFFICE
North Portal, Bldg. 9701-1
Telephone 7-8252

J. A. Rafferty Will Receive Chemical Medal



James A. Rafferty

James A. Rafferty, chairman of the board of Carbide and Carbon Chemicals Corporation, has been awarded the Chemical Industry Medal for 1948, it is announced by Archie J. Weith, chairman of the American Section of the Society of Chemical Industry.

The medal, conferred annually by the American Section for outstanding application of chemical research to industry, will be presented at a dinner meeting in the Waldorf-Astoria Hotel, New York City, November 5. At that time fellow scientists will pay tribute to Mr. Rafferty for his contributions to wartime atomic energy and rubber programs. The Chemical Industry Medal will be awarded for Mr. Rafferty's leadership in developing the billion-dollar synthetic aliphatic industry vital to the national economy.

The rise of the aliphatic branch of the chemical industry, virtually unknown 30 years ago, represents one of the most spectacular achievements in the history of chemical science, according to the announcement. Today this industry is the source of hundreds of synthetic chemicals important to the nation in peace and war. It now serves all of America's basic industries and more than doubles in size every five years.

Among the products of the aliphatic industry are anti-freezes, hydraulic brake fluids, lacquers, household cleaners and alcohol rubbing compounds. Most recently developed materials are new ingredients for making soapless soaps, better lubricants for the manufacture of rubber, new high-octane gasoline components and chemicals for shrink-proofing spun rayon.

During World War II Mr. Rafferty was executive officer in charge of operations of Union Carbide in connection with the government's synthetic rubber and atomic energy projects.

Mr. Rafferty was born in Chicago May 4, 1886 and after obtaining elementary education in Chicago schools, he graduated from the Lewis Institute of Technology in 1908 with a mechanical engineering degree. In October 1920 he became general manager of the then newly organized Carbide and Carbon Chemicals Corporation and was elected a vice president of the Company in 1934. In 1929 he was made president of Carbide and became chairman of the board in 1944. He also holds senior positions in several other Union Carbide affiliates.

Mr. Rafferty now lives in Rye, N. Y., and is a member of the Chemical Society, the Upton Club and Cloud Club in New York and the Westchester Country Club at Rye.



Y-12 Photos By Vince Moore
A GROUP OF Y-12 WOMEN EMPLOYEES HONORED TWO former companions Sunday, October 17, with a Stork Shower at the home of Roberta McCutcheon, 103 Palmer Lane. The honorees were Dorothy Mellen and Jean Davis. In the picture above are, left to right, Ruth Draughn, Jane Clouse, Virginia Bowers, Dorothy Mellen, Emily Lord, Louise Hard, Jean Davis, Mildred Swann, Helen Brown, Roberta McCutcheon and Helen Parkinson.



A. M. Jones, Dept. M12P, and his family have returned from a vacation in Miami, where they were in the path of a recent Florida hurricane. Telling about his exciting experience, Jones said: "Windows were boarded up, electricity turned off, kerosene lamps lighted and battery sets used for radios. Then everyone just waits for the weatherman to report, 'It's all over.' The wind exceeded 100 miles per hour and the rain really did come down." . . . W. C. Seymour, Dept. M12P, and John Byrd, Dept. B12L, donned their red hunting caps last week end and tried their luck up around Fontana Dam, N. C. Total kill: Squirrels 13, Bears 0.

Sympathy is extended to Sam Adams, Dept. H12L, in the death of his father recently . . . George Stukenbroeker and his wife, Marge, former Y-12er, and their two children visited in St. Louis and Illinois during their vacation.

John and Mary Lee Radin, Dept. H12L, have as guests John's mother, Mrs. Lillian Radin, of Gilroy, Calif., and a friend, Mrs. Florence Friedman, of San Francisco. A speedy recovery wish is extended to Bill Allen, who is on the sick list.

Dept. B12L congratulates Roscoe Barringer, who is a brand new pop. The Barringers have a new addition to their family, a baby girl, Carol Frances, weighing seven pounds and five ounces, born October 19 . . . Mary Dinsmore and her husband, John, of Dept. M13P, flew to Nashville over a recent week end to celebrate their wedding anniversary . . . Vacation time found Lenore Brushwood enjoying the sights of New York City and points of interest in the East . . . Alice and Ross Jamison entertained Alice's father, J. L. Collier, during his train stop in Knoxville on his way from New York City to his home in Alexandria, La. . . Emil Dittman and his family, with Mrs. Dittman's parents, Mr. and Mrs. DeGooyer, of Highmore, S. D., made a week-end tour of the Smokies . . . Helen Hackworth and Juanita Moore and her husband spent a recent week end in Chattanooga.

H. J. Finger, Dept. A21N, is vacationing this week and is covering a lot of territory in traveling through Tennessee, Arkansas, Mississippi, Alabama, Louisiana and Georgia before returning to Oak Ridge.

Edith Stott, Dept. A19N, is at home recovering from a serious operation.

Harry Cupp, Dept. H12E, is back on the job after a restful week in Oak Ridge.

Wylie T. McGee, Dept. B12C, spent a recent week end with his family in Westpoint, Tenn. . . . The department reports Emma Henry is still ill in Knoxville . . . We are sorry to hear Jim Arrington's father is seriously ill at his home in Morristown, Tenn. . . . Thelma Wise spent a restful vacation in Knoxville.

D. V. Zehner, Dept. A17N, is on the sick list in Knoxville.

"Jackie" Tankersley, Dept. A12S, visited with her mother in Chattanooga last week . . . W. C. Anderson spent his vacation just taking life easy at his home in Noma, Tenn. . . . J. P. Creasman is back on the job after vacationing with

his family in Andrews, N. C., and reports most of his time was spent hunting those Tarheel squirrels C. W. Evans and A. K. Self were on the vacation list last week . . . Carolyn Kirk spent a recent week end moving her mother and sister to Oak Ridge from Morristown, Tenn.

John Reece and Tom Mickey, Dept. H12D, have returned from a trip to Chicago after having attended the National Chemical Exposition sponsored by the Chicago Branch of the American Chemical Society . . . H. M. McLeod now is an official resident in Oak Ridge, recently moving in from Sheffield, Ala. . . . Nancy Doane is vacationing at her home in Lexington, Ky., spending most of her time breaking in the new Buick convertible which she purchased last week . . . After a week of vacation, Elizabeth Young left all the sunshine in Delray Beach, Fla., and returned to Oak Ridge over the week end . . . A speedy recovery wish is extended to Florence Housch, who is ill.

W. S. McDowell and R. B. Blankenship, Dept. A12G, are vacationing.

John Price, Dept. A12L, is back on the job after a restful vacation in Oak Ridge . . . Dolores Browder, Joe White, John Price and Robert Cantrell were among the football fans from Oak Ridge at the University of Tennessee and University of Alabama game.

Thomas A. McKenzie, Dept. B12A; G. C. Henderson, Dept. A13J, and Fire Chief J. W. Hughey, Dept. A14J, attended the National Safety Congress in Chicago last week.

H. G. Bingham, Dept. A14N, returned recently from a vacation spent visiting points of interest in Florida . . . R. H. Freeman is back on the job after vacationing with his parents in Jacksboro, Tenn. . . . Joseph Kramer has returned from a vacation in Milwaukee, Wis. . . . O. D. Liechty and H. R. Akins are back on the job after an extended illness.

Gordon Lindner, Dept. A13W, had as guests during his vacation last week his parents from Montana.

Dept. A20N wishes a speedy recovery to E. F. Dykes, who is on the sick list.

Dept. A12R extends sympathy to S. J. Myers, Jr., in the death of his brother on October 19 . . . Irene Bryan is back on the job after visiting with her parents in Rutherfordton, N. C.

Edna Miller, Dept. B12H, made a week-end trip to Rogersville, Tenn., to visit with friends and relatives . . . Harvey Keese and his family had as recent guests, Mr. and Mrs. P. G. Foster and Mrs. William, of Leslie, Ga. . . . Verney Sharp traveled to Nashville over a recent week end to visit friends.

WAS HE BURNED UP?

Beach Patrolman Francis Delano, of Swampscott, Mass., recently took time off from his job of protecting bathers at the beach there to buy a raffle ticket. After waiting several hours in the sun his number was called and he won — a sunlamp.



THOMAS-HEATHERLY

Miss Inez Heatherly, a Y-12 employee in Dept. B12L, became the bride of Jess W. Thomas, employed with a Chemical Section of the United States Army, at the Chapel-On-The-Hill at 11 a. m., October 16. The Rev. Stewart Rule performed the ceremony.

The bride is the daughter of Mr. and Mrs. Jesse Heatherly, of LaFollette, Tenn. Thomas is the son of Mr. and Mrs. Jesse W. Thomas, of Princeton, W. Va.

At her wedding the bride wore a royal blue dress with black accessories and a corsage of white roses. She carried a white Bible.

Mrs. Harry Sanford, sister of the bride, was matron of honor and her husband, Harry Sanford, was best man.

Out-of-town guests included parents of the bride and groom; Mr. and Mrs. W. F. Cook, of Princeton, W. Va.; Mrs. Glen Heatherly, Homer Heatherly and Cletus Heatherly, all of LaFollette.

Miss Heatherly was given in marriage by her father and during the ceremony Miss St. Clair Rule sang "I Love You Truly." She was accompanied on the organ by Mrs. Kenneth Ross.

Following the ceremony a reception was held in the East Lounge of the Ridge Recreation Hall.

The bride attended Lincoln Memorial University, Harrogate, Tenn. Thomas attended Carnegie Institute of Technology, Pittsburgh, Pa.

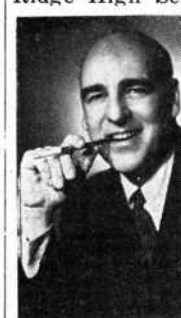
Following a honeymoon trip the couple will live in Oak Ridge.



Y-12 Photos By Vince Moore
Mr. and Mrs. J. W. Thomas

Norman Cordon Will Be Heard Friday Night

Norman Cordon, bass-baritone concert, operatic and radio artist, will appear in concert at the Oak Ridge High School Auditorium at



8:15 o'clock Friday night, October 29. The presentation will be the first of a series of outside artists to be brought to Oak Ridge by the Oak Ridge Civic Music Association during the coming season.

Admission will be limited to persons holding ORCMA season membership tickets, the association announced, as no single tickets will be sold for the concert. The season tickets may be obtained from association members and also at the high school box office on the night of the concert.

Cordon was born into a music loving family at Washington, N. C. His musical career began as a soprano-singing choir boy in his home town. Later he climbed the musical ladder to appear in musical comedy and with the Metropolitan, San Carlo and Chicago Grand Opera Companies. He also has been heard on several nationally-known radio programs.

Miss Opal Imalee Simmons Dies At Knoxville Home

Miss Opal Imalee Simmons, 29, five-year employee in Dept. B12H, died unexpectedly at her home, 825 Derry St., Knoxville, last Wednesday night. She came to work in Y-12 October 5, 1943.

Miss Simmons is survived by her parents, Mr. and Mrs. Fred Simmons; a sister, Mrs. Pauline Finer; and four brothers, Capt. Faris Simmons, stationed in Manila; Staff Sgt. Archie Simmons, now in Alaska; and Fay and Wayne Simmons, both of Knoxville.

Lavers Is Among Nominees For ASCE Vice President

W. D. Lavers, of Y-12, president of the Oak Ridge Section of the American Society of Civil Engineers, is among the nominees for vice-president of the Tennessee Valley Section of the society. The Tennessee Valley Section will hold its annual meeting and election of officers November 12 and 13 at the Andrew Johnson Hotel, Knoxville.

Lavers was elected president of the Oak Ridge Section of the society in September.

Hospital List

The following Y-12 employees were patients at the Oak Ridge Hospital last week: John R. Jasin, Dept. A15N; Earl Simmons, Dept. A16N; Mary A. Ballard, Dept. B13L; Clarence H. Jewell, Dept. A12G.



Only one birth was reported to a Y-12 family at the Oak Ridge Hospital last week. Parents were Mr. and Mrs. Roscoe E. Barringer, a girl, October 19.

If a person is philosophical and has intellectual interests, old age is a very agreeable time.



Beta Pick Ups Grab Lead In Women's Plant Pin Loop

The Y-12 inter-plant women's bowling league, known as the W League, play got under way last Thursday night with six teams entered in the league. Four players are on each team.

The Beta Pick-Ups ended up as league leaders for the initial night's play by flattening the Wholly Rollers for three points. The Dodgers captured two points from the Kemp keggers while dropping one, and the Controllers lowered the Hi Balls by taking two of the three points in the series.

Oak Ridge DAV Delegation To Attend District Meet

An Oak Ridge delegation from the Oak Ridge chapter of the Disabled American Veterans will leave October 29 for Nashville to attend the district meeting of the DAV and meet it's national commander, Gen. Jonathan Wainwright.

Claims by disabled American veterans in Y-12 should be brought to the attention of Tom Tayloe, service officer for the local chapter, at the next monthly meeting on October 27 at 7:30 p. m. at the V. F. W. Hall.

Dr. Sibelius Speaks At Jaycee Smoker

Dr. C. L. Sibelius, director of dental hygiene for the Tennessee Department of Health, will be the principal speaker at the Oak Ridge Junior Chamber of Commerce "smoker" tomorrow night at 7:30 o'clock at the Jaycee clubhouse on the Oak Ridge Turnpike.

Dr. Sibelius will speak on the new flouride treatment for children. Entertainment will be offered at the stag affair and Y-12 Jaycees are urged to attend and bring their friends.

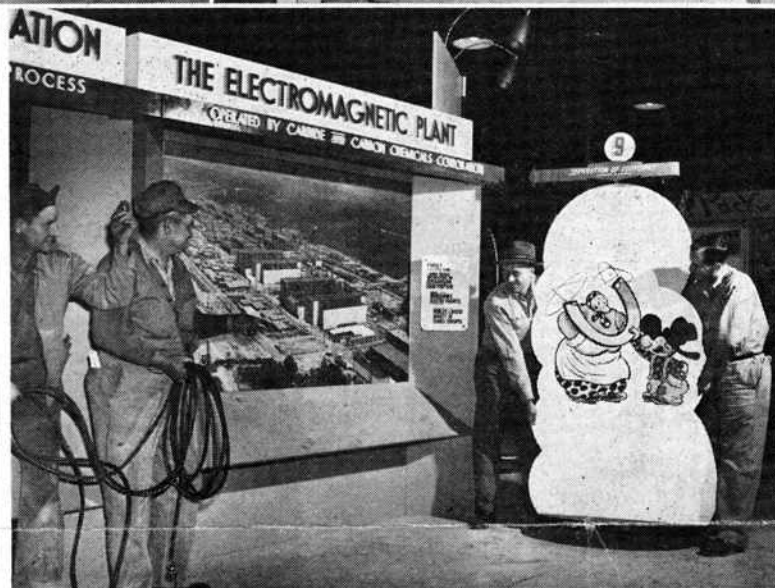
Children's Theater To Offer Players

The Children's Theater of Oak Ridge will present the Edwin Strawbridge players in two productions over the week end at the high school auditorium. "Red Riding Hood" will be staged at 8 p.m. Saturday, October 30 and again at 4 p.m. Sunday, October 31. At 8 p.m. Sunday the players will offer "The Snow Maiden."

Admission to each performance will be 60¢. Membership cards are \$1 and may be obtained from Mrs. Herbert Mack, P. O. Box 88, Oak Ridge.

"Does your husband always live up to his promises of courtship days?"

"Always. In those days he said he was not good enough for me, and he has been proving it ever since."



A LARGE GROUP OF Y-12 EMPLOYEES WERE BUSILY ENGAGED last week in putting together exhibits for "The Man And The Atom" show now being presented by the Atomic Energy Commission at a large Oak Ridge warehouse. At top left pouring over plans for the exhibit are Leo Hemphill, Dept. A13W, right; A. A. Groppe, General Foreman of Dept. A20N, center; and C. W. Koons, Foreman of the same department; pouring over plans for the show. The top right picture shows workmen erecting the Y-12 exhibit. Koons and Groppe are in the foreground while on the ladder inside the booth are A. M. Maples and J. S. Means. On the girder at top of the picture are J. S. Hambree and A. M. Lowry. The bottom picture shows another view of the Y-12 exhibit with the accompanying cartoon of "Snuffy and Lowsie" being placed in position by B. A. Clark and R. R. Chilcoat. Looking on from the right are D. E. Lewis and J. H. Woods. They all are in Dept. A20N, Field Maintenance.

'Man And The Atom' Show Displays Impressive; Exhibits Remain Open Through Saturday Night

(Continued from Page 1)
by the magnetic force and so can be collected separately. The heavier ionized particles of U-238 (silver balls) are less affected and travel to another gathering point. Particles that have not been ionized in the process are not deflected at all and are collected separately." More Than 25 Exhibits

The show contains more than 25 different exhibits and covers 20,000 square feet in the giant warehouse. Technical personnel will be on hand to explain the various exhibits.

Y-12 has several representatives at the show to explain to visitors not only the Y-12 exhibit but other displays. Among the Y-12 employees acting in this capacity are Leo Hemphill, Dept. A13W; John Harding, Dept. H12L; George H. Linder, Dept. A13W; C. D. Susano, Dept. H12D; H. E. Buckminster, Dept. A13W; L. J. Brady, Dept. H12D; Albert Clark, Jr., Dept. H12D; John Drury, Dept. H12D; and Myron Fields, Dept. H12E.

Installation of "Man and the Atom" show was done mostly by employees of the three Carbide plants in Oak Ridge who spent sev-

eral days last week assembling and erecting the many complex exhibits.

Reserve Research Group Will Meet

The Oak Ridge Research and Development Group of the Organized Reserves will meet at 7:30 o'clock Wednesday night, October 27, in Room 24 of the Oak Ridge Institute for Nuclear Studies building, according to Lieut. Col. H. M. Roth, commanding officer of the group.

Scout Troop No. 229 To Hold Open House

Open house for parents of members of Boy Scout Troop No. 229 and members of the Oak Ridge Lions Club, troop sponsors, will be held at 7:30 o'clock Wednesday night, October 27, at troop headquarters at the Cedar Hill School, it is announced by B. R. Arms, scoutmaster, a Y-12 employee in Dept. A12W. Entertainment will be provided by C. C. Mitchell, an Oak Ridge magician.

Hydrogen Sulfide In High Concentration Develops Into 'Killer That May Not Stink'

Dangers in the use of hydrogen sulfide gas are pointed out by the Y-12 Safety Department, which cites an article on the subject written by H. W. Fawcett, published in the September issue of the Journal of Chemical Education. The Y-12 Bulletin is glad to reprint this article for the information of all employees in the plant. Fawcett's article follows in full:

"A short time ago at a large university two lives were sacrificed and three others nearly lost to the deadly poison, H₂S. In this accident, the gas was stored in a closet-like room on the third floor of the chemistry building and flowed from a cylinder into a large gasometer and thence into laboratories below. Two men were overcome while replenishing supplies for use in afternoon laboratory courses. Three would-be rescuers were felled while trying to save the victims.

"Stinks Like Rotten Eggs"

"It appears that too little knowledge about this gas has been broadcast, although it is one of the most common chemical reagents. Any high-school chemistry student can tell you that 'it stinks like rotten eggs and it precipitates metals,' but question the student further and you will find he really knows little else about the gas. The fact that it rates with hydrogen cyanide as a killer, and that the odor cannot be depended upon to give warnings of dangerous concentrations, has completely escaped the notices of the student.

"When a leading college chemistry textbook masks its warnings in vague words like, 'When hydrogen sulfide is inhaled, it acts as a powerful poison . . . one part of the gas in 200 parts of air is fatal to mammals; and small animals such as birds are more sensitive,' it is small wonder that the student does not realize how potent a killer this gas really is. Another fact that escapes most students is that it forms explosive mixtures with air, the lower limit of flammability being 4.4 per cent and the upper limit 45 per cent hydrogen sulfide in air (by volume).

Can Cause Instant Death

"The sense of smell cannot be depended on to prevent exposure to dangerous concentrations of hydrogen sulfide. It has a rotten-egg odor at low concentrations and a sweetish odor at high concentrations. However, the sense of smell is lost so rapidly at high concentrations that no odor may be noticed at all. While concentrations of 600 parts per million (0.06 per cent) are fatal in 30 minutes, it requires only a few breaths of the undiluted gas to cause instant death from respiratory paralysis.

"Where use of the gas is indispensable in the laboratory, it should be generated in the smallest necessary amounts by heating the solid powder, sold commercially as 'aitchtuess,' in a hood with adequate air flow to insure complete ventilation. If a cylinder is absolutely necessary as a source of the gas, the cylinder should be as small as possible and used only in a hood.

Gas Is Heavier Than Air

"Hydrogen sulfide is 19 per cent heavier than air, and hence tends to settle toward the floor or lower levels. This property has caused many deaths where the gas was generated in wells, sewers and other underground passages.

"Where exposure to the gas is suspected or is known to have occurred, the first consideration before entering the area is to put on a Type AB, or Type N canister gas mask approved by the U. S. Bureau of Mines. However, even masks are only satisfactory protection for concentrations up to 20,000 parts per million (2.0 per cent). If concentrations may run higher than this, it is safer to use a self-contained breathing apparatus approved by the Bureau of Mines.

"The victim should be carried or dragged immediately to fresh air; he should not be allowed to walk because excessive exertion may make the toxic effects of the gas even more severe. The Schaefer method of artificial respiration should be started immediately if the victim is unconscious and not breathing, and should be continued until normal breathing is resumed

Attendance Standing Topped By Guards

(Continued From Page 1)
reported .9 per cent to take third place in the league standing. Record By Departments

The complete record of Y-12 absenteeism for the week ending October 17 by departments follows:

MAJOR LEAGUE			
More than 50 Employees Scheduled			
Dept.	Percentage Absent	Standing	10-17-48 10-10-48
A12G	1.45	1	8
A17N	1.46	2	5
B12H	1.46	2	2
A12S	1.6	3	3
A20N	1.9	4	4
M12P	2.6	5	7
A13N	2.8	6	9
A14N	2.9	7	13
B12C	3.5	8	14
A16N	3.6	9	11
H12D	4.5	10	17
B12L	4.71	11	10
A12M	4.74	12	16
B13L	4.9	13	6
H12E	5.22	14	15
H12L	5.24	15	12

Group absentee percentage was three per cent, .3 per cent lower than the preceding week.

MINOR LEAGUE			
15-49 Employees Scheduled			
Dept.	Percentage Absent	Standing	10-17-48 10-10-48
A15N	0.0	1	1
A13S	0.0	1	3
A13T	0.0	1	5
A14J	0.0	1	6
M13P	0.6	2	1
A12T	0.9	3	1
A21N	1.1	4	1
A12D	1.2	5	5
M12S	1.4	6	8
A12R	2.3	7	1
A12A	2.45	8	2
A12L	2.46	9	1
A12W	2.7	10	4
B13C	3.0	11	1
B12A	3.8	12	1
A12N	5.0	13	1
A19N	7.5	14	1
A12P	11.1	15	1
A13W	11.9	16	1

Group absentee percentage was 2.5 per cent, .3 per cent higher than the preceding week.

The plant average for the week ending October 17, was 2.9 per cent, .1 per cent lower than the preceding week.

Time Off To Vote Granted If Needed

(Continued From Page 1)
21 years old after January 10, 1947, or those who moved to Tennessee after that date nor from persons who became 50 years old before January 10, 1947.

A sworn verbal statement before an election judge is required of the voter claiming such exemptions and if the statement is challenged, written proof as to the age of the voter must be produced. Birth certificates are the best evidence, but such documents as state driving licenses and other papers giving date of birth are usually acceptable.

No registration is required of Oak Ridge voters but they must have one year residence in Tennessee and six months in Anderson County to be eligible to vote.

or the doctor arrives. A doctor and ambulance should be called by a second person so the first person can concentrate on the artificial respiration effort. The victim should be kept warm and carried to the ambulance. Transfusion to replace part of the sulfide-saturated blood with fresh blood is sometimes necessary.

"Before an area is reentered for normal activities after a leak, a hydrogen sulfide detector should be used to determine the concentration of the gas remaining. Twenty parts of hydrogen sulfide per million parts of air is the maximum allowable concentration for prolonged exposures."

"In general, remember that hydrogen sulfide: (1), is extremely deadly; (2), forms explosive mixtures with air; (3), concentrations cannot be safely detected by smell alone; (4), is heavier than air.

"Have respect and teach respect for H₂S!"

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Woodpeckers, All Stars Tied For B Loop Top

The B League roll off took place last Thursday night, and ended in a tie for league lead between the Woodpeckers and the All Stars. The Woodpeckers skinned the Wolves for four points. Other clean sweeps included the Bums over the One-91ers and Headpins over A12Ms. The Rippers and Maintenance took three each from the All Stars and Cubs respectively.

The Bums won high single game handicap with 1,025 pins. The Head Pins copped high series handicap with 2,884 pins. Bethea, of the Head Pins, captured individual honors in the series and single handicap classes with 672 and 241. Tibbatts, of the Rippers, won high scratch single on 201 pins, while Koons, of the Rippers, bowled 525 for high series scratch game.

Varsity Keglers Win Four Points From Monroe

The Marot Jewelers bowling team continued their reign over the city bowling league last week but were being threatened for the first time by another team. Allards are one point behind the leaders, and K-25 is one point lower than the second place holders. So it appears that a tight league race will develop.

The Y-12 varsity keglers tripped the Monroe quintet for four straight points to knot a tie with Addressograph for fourth place. The plant locals have risen from the lower division of the league since the beginning of league play.

The Y-12 bowlers and their three game total scores follow: Cobble, 467; Pletz, 509; Duncan, 436; Tibbatts, 480, and ZaBenco, 468.

League standing follows:

Team	W	L	Team	W	L
Marot's	20	4	Monroe	10	14
Allards	19	5	Clinch Radio	10	14
K-25	18	6	R-A	10	14
Add'grph.	14	10	S & B	7	17
Y-12	14	10	Grocers	7	17
ORNL	11	13	Fairfield	4	20

Standings In Plant Bowling Leagues

Team	W	L	Team	W	L
Materializers	18	10	Bldg. 9206	15	13
Moles	16	12	Hooks	14	14
Knucklebstrs	16	12	Guards	14	14
Thin Pins	15	13	Orphans	4	24

Team	W	L	Team	W	L
Strikers	15	9	Woodchprs	14	10
Termites	14	10	Scotties	12	12
Old Men	14	10	Splinters	7	17
Pin Busters	14	10	Overheads	6	18

Team	W	L	Team	W	L
W'dpeckers	20	8	Wolves	14	14
All Stars	20	8	Bums	12	16
Rippers	19	9	Cubs	12	16
Comets	16	12	Head Pins	8	20
Maintenance	15	13	One-91	8	20
Mules	15	13	A12Ms	8	20

Team	W	L	Team	W	L
Cherry Pick.	11	1	Bettle Baums	5	7
Apple Knock.	5	7	Jim Crows	3	9

Team	W	L	Team	W	L
Beta Pick-ups	3	0	Kemps	1	2
Dodgers	2	1	Hi Balls	1	2
Controllers	2	1	Wholly Rollers	0	3

The want ad said: "Wanted for responsible position — Harvard man or equivalent." A Virginia man answered, "In regard to your advertisement: Do you mean two Penn. men or one Virginia man working half time?"

Practice Sessions For Women Cagers Are Called; Plant League Teams Are Making Plans For Season

Y-12 definitely will be represented by a women's basketball team at the varsity level again this season and the first call for practice has been issued by Coach Bill Davis and Recreation Supervisor Arnold Tiller. At the same time initial steps have been taken to organize plant league basketball for the coming season.

Coach Davis has urged every woman employee in Y-12 who would like to play basketball to report for practice sessions at 7 o'clock Tuesday night and Wednesday night of this week. The Tues-

day drill will be held at the Glenwood School gymnasium and the Wednesday night practice at the Fairview School gymnasium.

Coach Davis will have quite a job replacing some of the star players of past years in organizing a team for the coming season. However, the popular Y-12 cage mentor has a reputation of being one of the best teachers of the game in Oak Ridge and given adequate material, should field a team capable of holding its own on the hardwood.

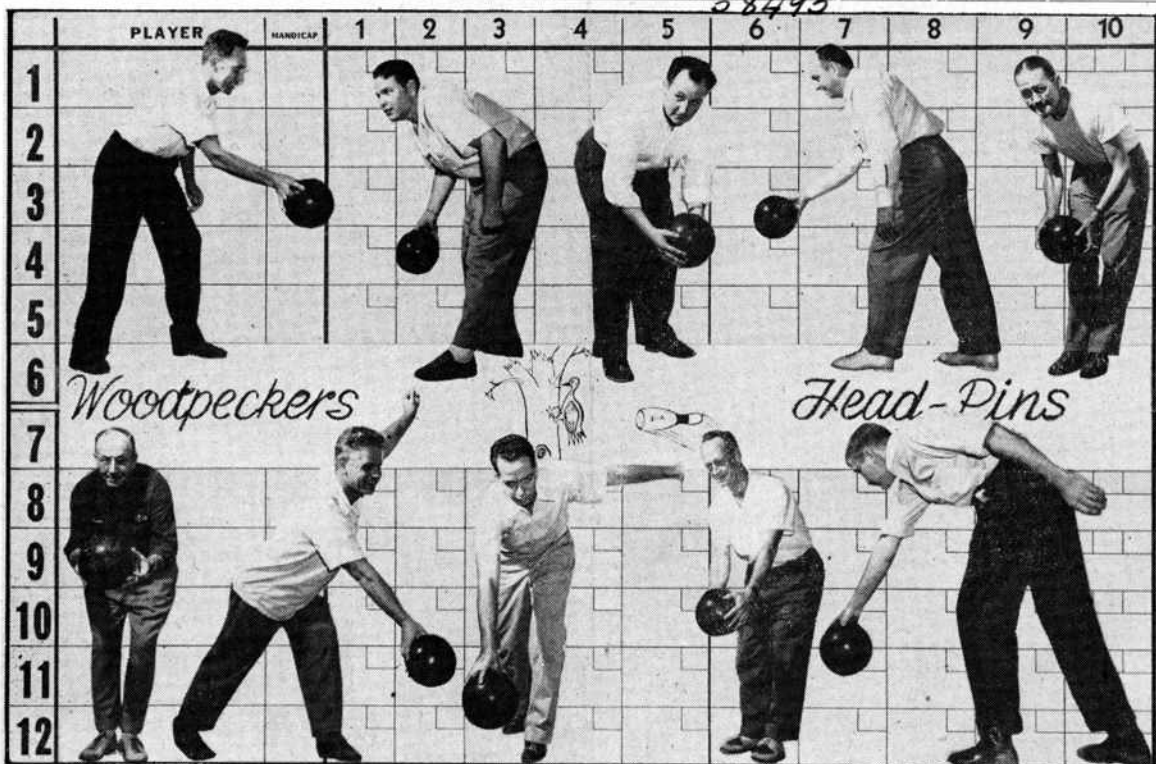
In urging all women who have

played the game or wish to try for the team to report for practice, it is pointed out that several inexperienced candidates for teams in the past have been developed into proficient players.

With an abbreviated touch football season now under way, many men employees have turned their eyes toward the basketball season. Several departments and groups already have made plans to form teams and the Recreation Office has asked that representatives wanting to reserve gymnasium space for practice to call that office in the North Portal, telephone 7-8252. Organizational meetings to form one or more leagues will be announced later.

Last year competition in the Plant League was close throughout and the season was brought to a close with a double elimination tournament. The Rough House Five won the regular season's title and was defeated in a thriller for tournament honors by the Guard Department.

Plans likewise are being formulated to have the Y-12 men's varsity cagers defend the Oak Ridge Recreation League title won last season. More information on plans to organize the men's team will be announced later.



THE WOODPECKERS AND THE HEADPINS OF THE "B" BOWLING LEAGUE ARE SHOWN above hitting their stride at the Oak Terrace bowling alley. Top row shows the Woodpeckers. From left to right are Doug Lavers, Nelson Tibbatts, W. L. Morgan, L. H. Barker, and Dr. Paul Scofield. The Head Pins on the bottom row from left to right include Ernie Cobble, Nick ZaBenco, Dave Crouse, H. J. Ratjen, and Dick Weichel.

Y-12 Photos By Vince Moore

Termites Win Honors; Strikers Lead League

The Strikers and Old Men bowling teams in the D League rolled out of the lower division in their circuit with last Wednesday night's play to soar into the top bracket. The Strikers went all the way to the head of the league with four points taken from the Overheads and the Old Men nipped the Scotties for four points to join the four-way tie for second place.

The Termites, Pin Busters, and Woodchoppers were the other teams in the second place tie. The Termites topped the Woodchoppers for three points and the Pin Busters copped all four points from the Splinters.

The Termites captured every high honor on the alleys for the league play and still remained in second place. They bowled high scratch series with 2,362 pins, high scratch single on 837 pins, high handicap single with 9,997, and high handicap series with 2,842 pins.

The individual honors were taken by Savage of the Termites as he topped the highest number of pins in the scratch series with 544 and also the most in the handicap series with 652.

Oilers Capture First Half Of Plant Football League

The Oilers captured the first half of the plant tag football league with a perfect record of four victories, no ties, and no defeats. Second place was taken by the Guards with one win, two defeats and one tie. The Bums trailed the league with three defeats and one tie.

League play for the second half got under way last night when the Oilers engaged the Guards. Tonight's game pits the Oilers against the Bums at Pinewood Park at 7 o'clock.

SPORTS

Oleyne Poindexter Rolls 404 But Y-12 Lassies Drop Two

Oleyne Poindexter bowled 404 in the three-game series for high Y-12 scorer in the Oak Ridge Women's League play last Thursday night. The Y-12 varsity keglerettes won one point from the league leading Tulip Town bowlers while dropping two, to give them a seventh place standing in the league.

Nancy Doane bowled 385 for the three games and Margaret O'Neil rolled 386 for Y-12. Inez Reece and Daisy Brogan Ward scored 356 and 351 for Y-12 respectively.

Cherry Pickers Pluck Lead In H12L League Bowling

The Cherry Pickers have a six game lead in the H12L league as a result of last Thursday night's play that netted them three points from the Beetle Baums. The Jim Crows topped the Apple Knockers for three points in the remaining league match.

The Beetle Baums captured the team high scratch with 672 pins topped, and the high handicap game with 967 pins. Martin Skinner, of the Beetle Baums, won high individual honors in the scratch and handicap class with 166 and 229 respectively.

SERVED HIM RIGHT

Woodward Melone, of San Francisco, took his wife fishing, according to a recent news dispatch, and jokingly told her to bait her hook with fried bacon, a slice of tomato and a geranium. You guessed it—she did and caught the limit in fish for the day.

Standings Tighten In C Bowling League

Seven of the eight teams entered in the C Bowling League have an equal chance of winning the league pennant at the end of regular season play as shown by the league standing.

Materializers Hold Slim Lead

The Materializers are out in front by two points, closely followed by the Moles and Knucklebusters, both tied for second place. One point behind finds the Thin Pins and the Bldg. 9206 keggers fighting it out for third place. The Guards and Hooks are a point lower to vie for fourth place. The Orphans are living up to their name with four points won and 24 lost.

Last Tuesday night's play brought the Moles into their present position by topping the Guards for four straight points. The Materializers captured three points from the Knucklebusters to break last week's tie between the two teams.

Moles Post High Scores

The Thin Pins and Hooks split four points, and Bldg. 9206 won the other league matches. The Moles bowled the highest scores in team handicap game, with 1,031 pins and team handicap series with 2,912 pins. Robinson, of the Moles, topped the most pins in the individual handicap game class to win with 234 and also the highest in the series handicap for individuals with 624 pins bopped.

In the two individual scratch games, E. Green, of the Orphans, won the game class with 197 pins and Freels, of the Thin Pins, topped the series class with 519.

AT LONG LAST

A news story from Oakland, Maine, tells of Kenneth Stone finding a ring lost on a beach seven years ago by Mary Brown, three-year-old girl.

Money no longer talks—it just goes without saying.

Several Y-12ers Among Enrollees In Pilot Classes

Y-12 members of the Oak Ridge Power Squadron have begun the overland haul from the surrounding lakes to dry dock their craft in the squadron's headquarters in Gamble Valley. An effort is being made by the squadron to obtain more space for overhauling the boats while they are in drydock this winter.

A piloting course, teaching the elements of small boat handling and seamanship, is being given at the Jefferson Junior High School. There are 28 members of the power group enrolled in this class and several are from Y-12. They include Frances Gilliam, Malcolm Crews, Frederick Mannerschmidt, Edward H. Merritt and John D. Redman. L. Z. Dolan and R. M. Batch, former Y-12 employees, also are members of this class.

Jack Case and William Brundage, both of Y-12, are among the eight registered in a course in advance piloting, which includes instruction in coastwise navigation. This course is being conducted at the Gamble Valley headquarters.

Six of the 12 enrolled in the junior navigation course, which includes celestial navigation, are Y-12 employees. They include G. J. Angele, George Banic, George Lockhart, William Rathkamp, W. C. Tunnell and Wally Watson.

Laboratory Cuemen Conquer Y-12 By Three-Two Margin

The Oak Ridge National Laboratory pocket billiard team rudely banked the Y-12 cue artists into a spot behind the eight-ball in the opening clash of the Oak Ridge league October 18 by taking a three game to two decision over "Red" Weist's boys. The total scoring was close with the Laboratory quintet racking up 361 counters to 327 for Y-12.

Jack Remine topped Hartman, 75 to 74; and W. B. Motley defeated Cook, 75 to 62; for the Y-12 victories. Laboratory triumphs were turned in by Odom over Bill Walker, 75 to 66; Massie over Weist, 75 to 42; and Snapp over H. M. Burnett, 75 to 69. Despite his loss, Weist had high run of the match by clicking off 27 straight balls.

The league now performs every Monday night at the Cue and Cushion. Before last night's matches Roane-Anderson led the loop with five wins and one loss, followed by the Laboratory with four and two, Y-12 with two and four and K-25 with one and five.